

## Lake Perris and Perris Dam Fact Sheet

### Roles and Responsibilities:

<b>Owner:</b>	California Department of Water Resources (DWR) Division of Operations and Maintenance
<b>Engineer:</b>	DWR Division of Engineering
<b>State Regulator:</b>	DWR Division of Safety of Dams
<b>Water Contractor:</b>	Metropolitan Water District of Southern California
<b>Camping, Parks and Recreation:</b>	California Department of Parks and Recreation
<b>Fishing and Wildlife:</b>	California Department of Fish and Game
<b>Boating:</b>	California Department of Boating and Waterways

### Issue

Engineers in the Department of Water Resources (DWR), with support from expert consultants, have identified potential seismic safety risks under a section of the foundation of Perris Dam.

**There is no imminent threat to life or property,** but DWR is taking steps to ensure maximum public safety while further analysis, feasibility studies, design work, environmental review and repairs are completed.

### Background

DWR is required by state law to hire independent scientific experts to evaluate the safety of all State Water Project dams, including Perris Dam. One of these independent evaluations recommended that DWR reanalyze the seismic stability of Perris Dam. An extensive review of existing data, new geotechnical explorations, and engineering analyses was conducted.

The study identified seismic weaknesses under a section of the foundation of the dam, suggesting that major damage and uncontrolled water releases could occur in a major earthquake. In response, the lake level has been reduced to 27 feet below the crest of the dam, reducing reservoir storage by about 42 percent and surface area by about 18 percent.

### **Next Steps**

In early October 2005, an Independent Consulting Board reviewed and reaffirmed DWR's findings. DWR will now move forward with plans to repair Perris Dam.

The lake will remain at the lower level for several years while work on the feasibility studies, design, environmental review and repairs are performed.

DWR will continue to work closely with the other involved agencies, including the Department of Parks and Recreation, Department of Fish and Game, and Department of Boating and Waterways, and the Metropolitan Water Districts of Southern California.

For more information, visit [www.perrisdam.water.ca.gov](http://www.perrisdam.water.ca.gov)

## Lake Perris Facility Information

### Location

Northwestern Riverside County, approximately 13 miles southeast of the City of Riverside and about 65 miles east of Los Angeles.

**Owner** California State Department of Water Resources

**Period Built** 1970 to 1974

### Perris Dam

**Type:** Zoned Earthfill  
**Embankment Volume:** 20,000,000 cubic yards  
**Height:** 128 feet  
**Crest Elevation:** 1,600 feet  
**Crest Length:** 11,600 feet  
**Crest Width:** 40 feet

### Lake Perris

**Maximum Operating Water Surface Elevation:** 1,588 feet  
**Minimum Operating Water Surface Elevation:** 1,540 feet  
**Storage at Spillway Crest Elevation:** 131,452 acre-feet  
**Maximum Operating Storage (@ Elev. 1588):** 126,841 acre-feet  
**Minimum Operating Storage (@ Elev. 1540):** 37,013 acre-feet  
**Shoreline at Spillway Crest Elevation:** 10 miles  
**Surface Area at Spillway Crest Elevation:** 2,318 acres  
**Surface Area at Maximum Operating Elevation:** 2,292 acres  
**Surface Area at Minimum Operating Elevation:** 1,540 acres

### Spillway

**Type:** Ungated ogee crest with concrete baffled chute and riprapped channel  
**Spillway Crest Elevation:** 1,590 feet

### Inlet Works

**Type:** Buried 8-foot 6-inch concrete pipeline from terminus of Santa Ana Valley Pipeline above right abutment (looking downstream).  
**Capacity:** 469 cubic feet per second

### Outlet Works

**Type:** 12-foot 6-inch diameter lined tunnel under left abutment (looking downstream), with a steel delivery manifold.  
**Intake Structure:** Five-level vertical tower with 72-inch shutoff butterfly valves  
**Control:** Regulation of flow at delivery manifold by water users.  
**Design Delivery:** 1,000 cubic feet per second  
**Blowoff Structure:** 6-foot-wide by 12-foot-high slide gate downstream of delivery/manifold with bolted bulkhead at downstream terminus.  
**Capacity:** 3,800 cubic feet per second